

Geometric Methods and Optimization Problems. By V. Boltyanski, H. Martini and V. Soltan. Kluwer Academic Publishers, Dordrecht. (1999). 429 pages. \$204.00, NLG 340.00, GBP 119.00.

Contents:

I. Nonclassical variational calculus. 1. The classical problem of mathematical programming. 2. The abstract intersection problem. 3. The tents (intuitive approach). 4. The tents (definition and justification of examples). 5. Separability of a system of convex cones. 6. The Topological Lemma. 7. The Kuhn-Tucker Theorem. 8. The Maximum Principle (Mayer's problem). 9. The Maximum Principle (Lagrange's and Bolza's problems). 10. Classical variational calculus. 11. The Maximum Principle (synthesis of optimal trajectories). 12. The Maximum Principle (method of local sections). 13. The Maximum Principle (sufficient condition for time-optimality). 14. The Robust Maximum Principle. 15. Minimax extremal problems. 16. The maximum principle—How it came to be? II. Median problems in location science. 17. On location science. 18. The classical Fermat-Torricelli problem. 19. On the location of p_{\min} . 20. The problem in Minkowski spaces. 21. Median k -flats in Euclidean n -space. 22. Median k -flats in Minkowski spaces. 23. Historical survey. III. Minimum convex partitions of polygonal domains. 24. Preliminaries. 25. Polygonal domains. 26. Minimum convex guillotine \mathcal{F} -partition. 27. Minimum \mathcal{F} -partition into trapezoids. 28. Minimum convex \mathcal{F} -partition. 29. Complexity status of the minimum convex \mathcal{F} -partition problem.

Spectral/hp Element Methods for CFD. By George Em Karniadakis and Spencer J. Sherwin. Oxford University Press, New York. (1999). 390 pages. \$75.00.

Contents:

1. Introduction. 2. Fundamental concepts in one dimension. 3. Multidimensional expansion bases. 4. Multidimensional formulation. 5. Geometrically non-conforming elements. 6. Advection equation. 7. Helmholtz equation. 8. Incompressible flows. 9. Flow simulations. 10. Compressible flows. Appendices. A. Jacobi polynomials. B. Gauss-type integration. C. Collocation differentiation. D. Continuous expansion basis. E. Characteristic flux decomposition. References. Index.

Kant's Conception of Moral Character: The "Critical" Link of Morality, Anthropology, and Reflective Judgment. By G. Felicitas Munzel. University of Chicago Press, Chicago. (1999). 377 pages. \$53.00, £37.50 (cloth); \$24.00, £17.00 (paper).

Contents:

Preface. A note on translation. Abbreviations. Introduction. I. Development of the conception of character and its relation to other terms and distinctions of the critical philosophy. 1. Character conceived as an issue of the conduct of thought (*Denkungsart*). 2. Character and the "Unity of the inner principle of the conduct of life". 3. Character and radical evil. II. Human moral character: Its structure and cultivation. 4. Principles of orientation and the relational structure of character. 5. Pedagogy: The formation (*Bildung*) of character. Epilogue: Character as a grafted entity. Bibliography. Indexes.

Business Intelligence: The IBM Solution. By Mark Whitehorn and Mary Whitehorn. Springer, London. (1999). 289 pages. \$79.95, DM 115.00, öS 840.00, sF 105.00, GBP 37.50 (CD-ROM included).

Contents:

Acknowledgements. Contents. Introduction. 1. Do you need business intelligence? 2. Installation. 3. Creating a data warehouse. 4. Making a connection to the data warehouse. 5. Business views. 6. More about business views. 7. Business views for data transformation. 8. The work in progress window. 9. Data from disparate sources. 10. Security. 11. DataGuide. 12. Overview of Visual Warehouse components. 13. OLAP concepts and terminology. 14. Installing DB2 OLAP server. 15. Using the ready-built samples. 16. More about the online editor. 17. Creating your first cube. 18. Data load rules. 19. Anchor dimensions and a few more concepts and pointers. 20. Visual Warehouse and DB2 OLAP server symbiosis. Appendices. 1. Overview of data warehousing. 2. IBM's business intelligence solution. 3. The software. 4. Overview of data warehouse components. Index.

Handbook of Splines. By Gheorghe Micula and Sandra Micula. Kluwer Academic Publishers, Dordrecht. (1999). 604 pages. \$105.00, NLG 240.00, GBP 72.00.

Contents:

Preface. 1. Spline functions and the representation of linear functionals. 2. Multivariate spline functions. 3. Nonlinear sets of spline functions. 4. Numerical treatment of the integral equations. 5. Numerical solution of ordinary differential equations. 6. Splines and finite elements. 7. Finite element method for solution of boundary problems for partial differential equations. 8. Spline functions in computer aided geometric design. 9. From spline to fractals. 10. Box splines. 11. Spline wavelets. 12. References. Index.

Enterprise JavaBeansTM. By Richard Monson-Haefel. O'Reilly, Sebastopol, CA. (1999). 317 pages. \$32.95.

Contents:

Preface. 1. Introduction. 2. Architectural overview. 3. Resource management and the primary services. 4. Developing your first Enterprise Beans. 5. The client view. 6. Entity beans. 7. Session beans. 8. Transactions. 9. Design strategies. Appendices. A. The Enterprise JavaBeans API. B. State and sequence diagrams. C. EJB vendors. Index.